

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

NOTICE OF ALLOWANCE AND FEE(S) DUE

25944

7590

12/15/2003

OLIFF & BERRIDGE, PLC P.O. BOX 19928 ALEXANDRIA, VA 22320 EXAMINER KALAFUT, STEPHEN J

ART UNIT

PAPER NUMBER

1745

DATE MAILED: 12/15/2003



APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/005.145	12/07/2001	Takashi Shimazu	110765	8068	

TITLE OF INVENTION: HYDROGEN GAS GENERATING SYSTEMS, FUEL CELL SYSTEMS AND METHODS FOR STOPPING OPERATION OF FUEL CELL SYSTEM

APPLN. TYPE	SMALL ENTITY	ISSUE FEE	PUBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE	
nonprovisional	NO	\$1330	\$300	\$1630	03/15/2004	

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE REFLECTS A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE APPLIED IN THIS APPLICATION. THE PTOL-85B (OR AN EQUIVALENT) MUST BE RETURNED WITHIN THIS PERIOD EVEN IF NO FEE IS DUE OR THE APPLICATION WILL BE REGARDED AS ABANDONED.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status is changed, pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above and notify the United States Patent and Trademark Office of the change in status, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check the box below and enclose the PUBLICATION FEE and 1/2 the ISSUE FEE shown above.

□ Applicant claims SMALL ENTITY status. See 37 CFR 1.27.

II. PART B - FEE(S) TRANSMITTAL should be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). Even if the fee(s) have already been paid, Part B - Fee(s) Transmittal should be completed and returned. If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

Complete and send this form, together with applicable fee(s), to: Mail

Mail Stop ISSUE FEE Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or Fax

(703) 746-4000

		mitting the ICCITE	FEE and PURLICA	TION FEE (if require	ed). Blocks I through 4 sl	nould be completed where	
appropriate. All further cor indicated unless corrected l	rm should be used for trans respondence including the F below or directed otherwise	atent, advance order in Block 1, by (a)	specifying a new cor	respondence address;	and/or (b) indicating a sepa	rate FEE ADDRESS 101	
maintenance fee notifications. CURRENT CORRESPONDENCE ADDRESS (Note: Legibly mark-up with any corrections or use Block 1)			F	Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must			
25944 75	590 12/15/2003		ħ	ave its own certificate	of maining of transmission.		
OLIFF & BERRI P.O. BOX 19928 ALEXANDRIA, V			S	hereby certify that the	tificate of Mailing or Trans is Fee(s) Transmittal is bein vith sufficient postage for fir Stop ISSUE FEE address TO, on the date indicated be	g deposited with the United st class mail in an envelope above, or being facsimile	
			ſ			(Depositor's name)	
			ŀ			(Signature)	
						(Date)	
APPLICATION NO.	FILING DATE	F	IRST NAMED INVENT	OR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/005,145	12/07/2001		Takashi Shimazu		110765	8068	
TITLE OF INVENTION: SYSTEM	HYDROGEN GAS GENER	ATING SYSTEM	S, FUEL CELL SYS	TEMS AND METHO			
APPLN, TYPE	SMALL ENTITY	ISSUE FE	EE PU	BLICATION FEE	TOTAL FEE(S) DUE	DATE DUE	
nonprovisional	NO	\$1330		\$300	\$1630	03/15/2004	
EXA	MINER	ART UNIT		ASS-SUBCLASS]		
KALAFUT	, STEPHEN J	1745		429-017000			
1. Change of corresponden CFR 1.363).	ce address or indication of "B		names of up to agents OR, alternative firm (having as a	the patent front page, 3 registered patent a attively, (2) the name member a registered mes of up to 2 regis	of a single attorney or 2		
☐ "Fee Address" indica PTO/SB/47; Rev 03-02 Number is required.	tion (or "Fee Address" Indica or more recent) attached. Us	se of a Customer	attorneys or agent will be printed.	s. If no name is liste	d, no name 3		
3. ASSIGNEE NAME AN	D RESIDENCE DATA TO	BE PRINTED ON	THE PATENT (print o	or type)		ista when an accionment he	
PLEASE NOTE: Unles been previously submit (A) NAME OF ASSIG	ss an assignee is identified be ted to the USPTO or is being	elow, no assignee d	lata will appear on the parate cover. Complet	e patent. Inclusion of a tion of this form is NO Y and STATE OR CO	issignee data is only approp. T a substitute for filing an as DUNTRY)	ssignment.	
Please check the appropria	ate assignee category or categ	ories (will not be p	rinted on the patent);	🔾 individual 🚨	corporation or other private	group entity 🖸 governme	
4a. The following fee(s) as		4	b. Payment of Fee(s):		.14		
☐ Issue Fee				nount of the fee(s) is en			
□ Publication Fee □ Po			Payment by credit	t card. Form PTO-203	charge the required fee(s), (or credit any overpayment,	
☐ Advance Order - # o			Deposit Account Nu	mber	(enclose an extra	copy of ans form).	
Director for Patents is req	uested to apply the Issue Fee	and Publication Fe	e (if any) or to re-appl	y any previously paid	issue fee to the application i	dentified above.	
(Authorized Signature)		(Date)					

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number. TRANSMIT THIS FORM WITH FEE(S)

NOTE; The Issue Fee and Publication Fee (if required) will not be accepted from anyone other than the applicant; a registered attorney or agent; or the assignee or other party in interest as shown by the records of the United States Patent and Trademark Office.

This collection of information is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, Alexandria, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, Alexandria, Virginia 22313-1450.



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		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORES SOCIES	
10/005,145	12/07/2001	Takashi Shimazu	110765	8068
25944	7590 12/15/2003		EXAM	INER
OLIFF & BERI	RIDGE, PLC		KALAFUT,	STEPHEN J
P.O. BOX 19928			ART UNIT	PAPER NUMBER
ALEXANDRIA,	VA 22320		1745	
			DATE MAILED: 12/15/200	3

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 168 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 168 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) system (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (703) 305-1383. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at (703) 305-8283.



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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/005,145	12/07/2001	Takashi Shimazu	110765	8068
25944 75	90 12/15/2003		EXAM	INER
OLIFF & BERRI	DGE, PLC		KALAFUT,	STEPHEN J
P.O. BOX 19928 ALEXANDRIA, V	A 22220		ART UNIT	PAPER NUMBER
ALEXANDRIA, V	A 22320		1745	

DATE MAILED: 12/15/2003

Notice of Fee Increase on October 1, 2003

If a reply to a "Notice of Allowance and Fee(s) Due" is filed in the Office on or after October 1, 2003, then the amount due will be higher than that set forth in the "Notice of Allowance and Fee(s) Due" since there will be an increase in fees effective on October 1, 2003. See Revision of Patent Fees for Fiscal Year 2004; Final Rule, 68 Fed. Reg. 41532, 41533, 41534 (July 14, 2003).

The current fee schedule is accessible from (http://www.uspto.gov/main/howtofees.htm).

If the fee paid is the amount shown on the "Notice of Allowance and Fee(s) Due" but not the correct amount in view of the fee increase, a "Notice of Pay Balance of Issue Fee" will be mailed to applicant. In order to avoid processing delays associated with mailing of a "Notice of Pay Balance of Issue Fee," if the response to the Notice of Allowance is to be filed on or after October 1, 2003 (or mailed with a certificate of mailing on or after October 1, 2003), the issue fee paid should be the fee that is required at the time the fee is paid. If the issue fee was previously paid, and the response to the "Notice of Allowance and Fee(s) Due" includes a request to apply a previously-paid issue fee to the issue fee now due, then the difference between the issue fee amount at the time the response is filed and the previously-paid issue fee should be paid. See Manual of Patent Examining Procedure, Section 1308.01 (Eighth Edition, August 2001).

Effective October 1, 2003, 37 CFR 1.18 is amended by revising paragraphs (a) through (c) to read as set forth below.

Section 1.18 Patent post allowance (including issue) fees.

(a) Issue fee for issuing each original or reissue patent, except a design or plant patent:

(b) Issue fee for issuing a design patent:

(c) Issue fee for issuing a plant patent:

By a small entity (Sec. 1.27(a))......\$320.00

By other than a small entity.....\$640.00

Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at (703) 305-8283.

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	Applica	tion No.	Applicant(s)				
	10/005,	145	SHIMAZU, TAKASHI	(()			
Notice of Allowability	Examin		Art Unit	118			
·	Stephen	J. Kalafut	1745	()			
The MAILING DATE of this communication appear All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REM or other a IGHTS . T	AINS) CLOSED in this appropriate communication his application is subject to	olication. If not included will be mailed in due co	ourse. THIS			
1. This communication is responsive to applicant's paper of 1	0/22/03.						
2. The allowed claim(s) is/are <u>1-36</u> .			•				
3. \boxtimes The drawings filed on <u>12/07/01</u> are accepted by the Exami	ner.						
 4. ☐ Acknowledgment is made of a claim for foreign priority ur a) ☐ All b) ☐ Some* c) ☐ None of the: 	nder 35 U.	S.C. § 119(a)-(d) or (f).					
 Certified copies of the priority documents have 	e been rec	eived.	•				
Certified copies of the priority documents have	e been rec	eived in Application No	<u> </u>				
3. Copies of the certified copies of the priority do	cuments h	nave been received in this i	national stage applicatio	n from the			
International Bureau (PCT Rule 17.2(a)).							
* Certified copies not received:		•					
5. Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application) since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78.							
(a) The translation of the foreign language provisional a							
6. Acknowledgment is made of a claim for domestic priority up in the first sentence of the specification or in an Application			nce a specific reference	was included			
Applicant has THREE MONTHS FROM THE "MAILING DATE" of below. Failure to timely comply will result in ABANDONMENT of							
7. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give				FICE OF			
8. CORRECTED DRAWINGS (as "replacement sheets") mus (a) including changes required by the Notice of Draftspers 1) hereto or 2) to Paper No			948) attached				
(b) ☐ including changes required by the proposed drawing c	errection t	filed which has be	on approved by the Eva	minor			
(c) ☐ including changes required by the proposed drawing c							
(c) I moduling changes required by the attached Examiner s	s American	ient / Comment of in the O		··			
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in the				ack) of			
9. DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT FOR T				te the			
Attachment(s)							
1 ☐ Notice of References Cited (PTO-892)		5 Notice of Informal Pa	tent Application (PTO-1	52)			
2 Notice of Draftperson's Patent Drawing Review (PTO-948)		6☐ Interview Summary (F	PTO-413), Paper No	·			
3⊠ Information Disclosure Statements (PTO-1449 or PTO/SB/08 Paper No. 6	3),	7 Examiner's Amendme	ent/Comment				
4		8☐ Examiner's Statemen 9☐ Other .	t of Reasons for Allowa	псе			
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Art Unit: 1745

The following is an examiner's statement of reasons for allowance: Although Mizuno *et al.* (Japanese 2-132,770) discloses air being blown into a reformer in order to cool it, they do not disclose this air being supplied in response to the condition of the heat produced by the reaction of air with a residual flammable material having no effect on the system.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Stephen J. Kalafut whose telephone number is 703-308-0433. The examiner can normally be reached on Mon-Fri 8:00 am-4:30 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Patrick J. Ryan can be reached on 703-308-2383. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9310.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0661.

STEPHEN KALAFUT PRIMARY EXAMINER GROUP

sik